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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10414 (1982): Scissors, Bowel [MHD 1: Surgical Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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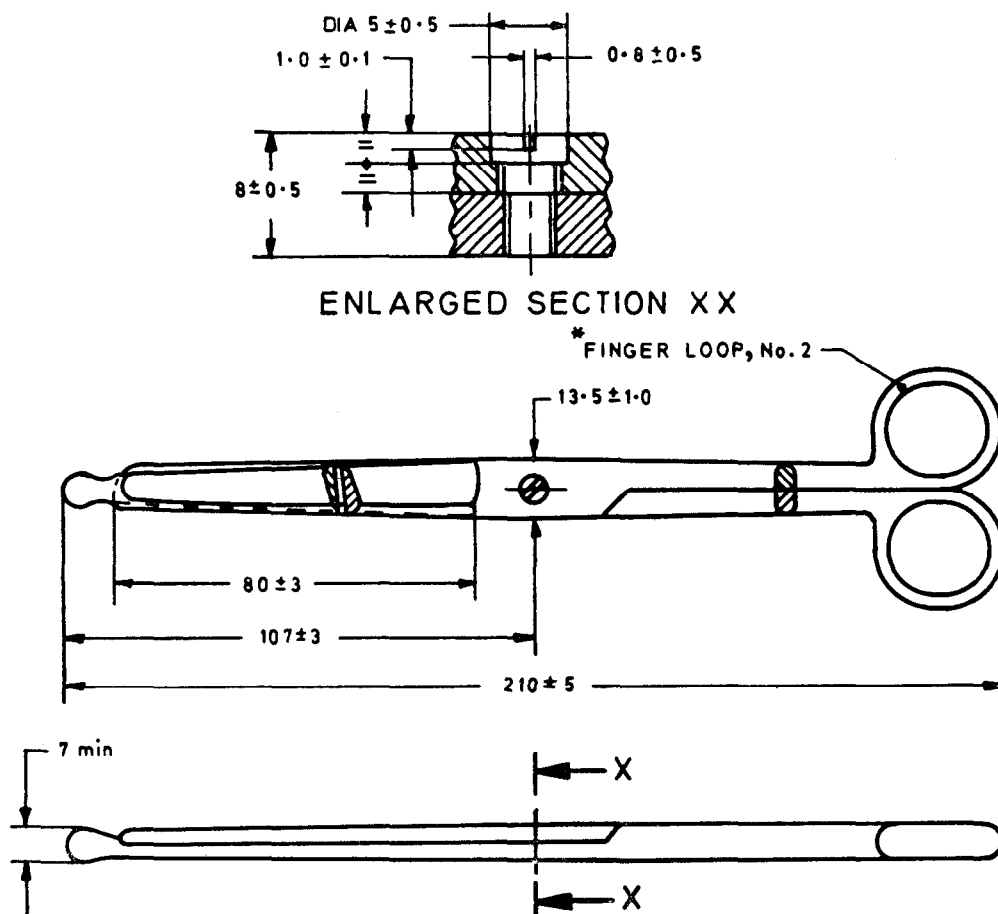




Indian Standard
SPECIFICATION FOR
SCISSORS, BOWEL

1. Scope — Dimensional and other requirements for bowel scissors of size 210 mm used in general surgery.

2. Shape and Dimensions — As shown in Fig. 1.



*See IS : 3642-1978 General requirements for surgical instruments (first revision).

All dimensions in millimetres .

FIG. 1 SCISSORS, BOWEL

2.1 Screw used shall be of a slotted cheese head pattern as shown in Fig. 1. The profile of the screw thread shall conform to IS : 4218 (Parts I to Part VI) ' ISO metric screw threads '.

2.1.1 The thread shall be of such length as to allow sufficient shank for proper bearing and to adequately secure the two halves of scissors with proper tension for cutting. Screw shall retain position after setting without binding or loosening during use and shall be flush with the surface of the blades.

2.2 Finger loops shall be properly shaped and the sizes shall conform to Section V of IS : 3642-1978 ' General requirements for surgical instruments (first revision) '.

2.3 The distance across the face of the cutting bevel edge shall be not less than 0.5 mm except at the extreme tip of blades where it shall not exceed 0.5 mm.

3. Material — The scissors shall be made of stainless steel conforming to Designation 30Cr13 or 40Cr13 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

4. Workmanship and Finish

4.1 The scissors shall be free from rough edges, cracks, seams, burrs, flaws and other defects. The edges shall be even and rounded except for the cutting edge which shall be sharp. The cutting edges shall be free from nicks, feathers, jags, waviness and burrs.

4.2 The scissors shall be made symmetrical.

4.3 The joints shall work smoothly and shall not have any play. They shall also satisfy the requirements given in Section II of IS : 3642-1978.

4.4 The scissors shall be polished bright and passivated.

4.5 One arm of the blade shall be made bulbous as shown in Fig. 1.

5. Heat Treatment — The scissors shall be hardened and tempered to give hardness of 500 to 600 HV.

6. Tests

6.1 Performance — The scissors shall cut from pinch to tip wet tissue paper, teased out cotton wool, fine hair and frayed lint accurately and cleanly. The tip shall cut chamois leather neatly. The test shall be carried out with both right and left hands.

6.2 Corrosion Resistance — The instruments shall show no sign of corrosion when put to boiling and autoclaving test in accordance with IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '.

7. Marking — The scissors shall be clearly and indelibly marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark;
- b) The words ' Stainless Steel ' or ' SS '.

7.1 ISI Certification Mark — Details available with the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier.

EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from DIN 13119 ' Specification for bowel scissors ' issued by Deutsches Institut für Normung.